## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

 (Currently Amended) A method, in a data processing system, for identifying differences between the execution of a first build of a computer program and a second build of a computer program, comprising:

obtaining a first call tree data structure corresponding to first trace data of an execution of the first build of the computer program;

obtaining a second call tree data structure corresponding to second trace data of an execution of the second build of the computer program;

copying the first call tree data structure to form a copied call tree data structure;

subtracting the second call tree data structure from the [[first]] <u>copied</u> call tree data structure to generate a subtracted call tree data structure; and

outputting the subtracted call tree data structure, wherein the subtracted call tree data structure identifies differences between the execution of the first build of the computer program and the execution of the second build of the computer program.

(Original) The method of claim 1, further comprising:

inputting the first trace data and the second trace data to an arcflow tool, wherein the arcflow tool generates the first call tree data structure and the second call tree data structure based on the first trace data and the second trace data

- (Original) The method of claim 1, wherein the first call tree data structure and the second call
  tree data structure are xtree data structures.
- 4. (Currently Amended) The method of claim 1, wherein copying the first call tree data structure to form the copied call tree data structure subtracting the second-call tree data structure from the first call tree data structure to generate a subtracted call tree data structure includes:

eopying the first call tree data structure and inserting a pass field in each node of the [[first]] copied call tree data structure;

initializing the pass field in each node of the [[first]] copied call tree data structure; and

walking the second call tree data structure over the [[first]] <u>copied</u> call tree data structure to generate the subtracted call tree data structure.

5. (Currently Amended) The method of claim 4, wherein walking the second call tree data structure over the [[first]] copied call tree data structure includes:

for each node that exists in both the [[first]] <u>copied</u> call tree data structure and the second call tree data structure, generating a node in the subtracted call tree data structure by subtracting a base value of the node in the second call tree data structure from a base value of a corresponding node in the [[first]] copied call tree data structure.

 (Currently Amended) The method of claim 4, wherein walking the second call tree data structure over the first call tree data structure includes:

for each node that exists in only one of the first call tree data structure and the second call tree data structure, creating a node in the subtracted call tree data structure having a negative base value corresponding to a base value of the node that exists in either of the first call tree data structure or only the second call tree data structure.

7. (Original) The method of claim 5, further comprising:

setting a value of a pass field of the node in the subtracted call tree data structure to a value indicating that both the first call tree data structure and the second call tree data structure contributed to the base value

(Original) The method of claim 6, further comprising:

setting a value of a pass field of the node in the subtracted call tree data structure to a value indicating that either the first call tree data structure or the second call tree data structure contributed to the base value.

- (Original) The method of claim 4, wherein nodes in the first call tree data structure and nodes in
  the second call tree data structure whose paths have not changed between builds are not present in the
  subtracted call tree data structure.
- 10. (Original) The method of claim 1, further comprising:

identifying improvements or regressions from the first build to the second build of the computer program based on values associated with nodes in the subtracted call tree data structure.

11. (Currently Amended) A computer program product in a computer readable medium for identifying differences between the execution of a first build of a computer program and a second build of a computer program, comprising:

first instructions for obtaining a first call tree data structure corresponding to first trace data of an execution of the first build of the computer program;

second instructions for obtaining a second call tree data structure corresponding to second trace data of an execution of the second build of the computer program;

fifth instructions for copying the first call tree data structure to form a copied call tree data structure;

third instructions for subtracting the second call tree data structure from the [[first]] copied call tree data structure to generate a subtracted call tree data structure; and

fourth instructions for outputting the subtracted call tree data structure, wherein the subtracted call tree data structure identifies differences between the execution of the first build of the computer program and the execution of the second build of the computer program.

12. (Original) The computer program product of claim 11, further comprising:

fifth instructions for inputting the first trace data and the second trace data to an arcflow tool, wherein the arcflow tool generates the first call tree data structure and the second call tree data structure based on the first trace data and the second trace data.

- 13. (Original) The computer program product of claim 11, wherein the first call tree data structure and the second call tree data structure are xtree data structures.
- 14. (Currently Amended) The computer program product of claim 11, wherein the [[third]] fifth instructions for copying the first call tree data structure to form the copied call tree data structure subtracting the second call tree data structure from the first call tree data structure to generate a subtracted call tree data structure include:

instructions for eopying the first call tree data structure and inserting a pass field in each node of the [ffirst]) copied call tree data structure;

instructions for initializing the pass field in each node of the [[first]] copied call tree data structure: and

instructions for walking the second call tree data structure over the [[first]] <u>copied</u> call tree data structure to generate the subtracted call tree data structure.

15. (Currently Amended) The computer program product of claim 14, wherein the instructions for walking the second call tree data structure over the [ffirst]] copied call tree data structure include:

for each node that exists in both the [[first]] <u>copied</u> call tree data structure and the second call tree data structure, instructions for generating a node in the subtracted call tree data structure by subtracting a base value of the node in the second call tree data structure from a base value of a corresponding node in the [[first]] copied call tree data structure.

16. (Currently Amended) The computer program product of claim 14, wherein the instructions for walking the second call tree data structure over the first call tree data structure include:

for each node that exists in only one of the first call-tree data structure and the second call tree data structure, instructions for creating a node in the subtracted call tree data structure having a negative base value corresponding to a base value of the node that exists in either of the first call-tree data structure [[or]] only the second call tree data structure.

- 17. (Original) The computer program product of claim 15, further comprising:
- instructions for setting a value of a pass field of the node in the subtracted call tree data structure to a value indicating that both the first call tree data structure and the second call tree data structure contributed to the base value
- 18. (Original) The computer program product of claim 16, further comprising:

instructions for setting a value of a pass field of the node in the subtracted call tree data structure to a value indicating that either the first call tree data structure or the second call tree data structure contributed to the base value.

- 19. (Original) The computer program product of claim 11, further comprising:
- fifth instructions for identifying improvements or regressions from the first build to the second build of the computer program based on values associated with nodes in the subtracted call tree data structure.
- 20. (Currently Amended) An apparatus for identifying differences between the execution of a first build of a computer program and a second build of a computer program, comprising:

means for obtaining a first call tree data structure corresponding to first trace data of an execution of the first build of the computer program;

means for obtaining a second call tree data structure corresponding to second trace data of an execution of the second build of the computer program;

means for copying the first call tree data structure to form a copied call tree data structure; means for subtracting the second call tree data structure from the [[first]] copied call tree data structure to generate a subtracted call tree data structure; and

means for outputting the subtracted call tree data structure, wherein the subtracted call tree data structure identifies differences between the execution of the first build of the computer program and the execution of the second build of the computer program.